

CLAIMS

1. Flexible conduit for conveying cryogenic fluids, which consists of a metal inner tube (1), a strip-shaped spacer member (3) made of a material of low thermal conductivity, which is spirally wound on the inner tube (1), and a metal outer tube (2), such that the spacer member (3) contacts both the inner tube (1) and the outer tube (2), characterized by the fact that the strip-shaped spacer member (3) is twisted about its own axis and consists of a metal that is stable with respect to high-energy radiation and has a thermal conductivity of less than 25 W/m•K and a tensile strength of more than 240 MPa.

2. Flexible conduit in accordance with Claim 1, characterized by the fact that the spacer member (3) consists of titanium sheet.

3. Flexible conduit in accordance with Claim 1, characterized by the fact that the spacer member (3) consists of a nickel-base alloy that contains more than 15 wt.% chromium.

4. Flexible conduit in accordance with any of Claims 1 to 3, characterized by the fact that the width of the spacer member (3) is 0.1-0.3 D, where D is the outside diameter of the inner

tube (1).

5. Flexible conduit in accordance with any of Claims 1 to 4, characterized by the fact that the wall thickness of the spacer member (3) is $0.01-0.03 D$, where D is the outside diameter of the inner tube (1).

6. Flexible conduit in accordance with any of Claims 1 to 5, characterized by the fact that the length of lay of the twist is $3-10 D$, where D is the outside diameter of the inner tube (1).

7. Flexible conduit in accordance with any of Claims 1 to 6, characterized by the fact that the inner tube (1) is a corrugated stainless steel tube.

8. Flexible conduit in accordance with any of Claims 1 to 7, characterized by the fact that the outer tube (2) is a corrugated stainless steel tube.